

What Is Claimed Is:

1. A stereoscopic imaging system comprising:
an adjustment assembly;
5 a first lens mounted to the adjustment assembly;
a second lens mounted to the adjustment assembly;
a first eyepiece for viewing images received by the first lens;
a second eyepiece for viewing images received by the second lens;
wherein the distance between the first and second lenses can be varied by the
10 adjustment assembly and wherein the distance between the first and second
lenses is substantially independent of the distance between the first and
second eyepieces.
2. The stereoscopic imaging system of claim 1 wherein the first lens and second lens
15 are housed in a first and second telescope chamber, respectively, and wherein the
first and second telescope chambers are attached to the adjustment assembly.
3. A stereoscopic imaging system of claim 1 further comprising:
a first image capturing component in an optical path behind the first lens that
20 produces first image signals;
a second image capturing component in an optical path behind the second lens that
produces second image signals;
a processor coupled to the first and second image capturing components that
receives the first and second image signals and produces one or more
25 resultant signals corresponding to the first and second image signals; and
display means that displays the resultant signals.
4. The stereoscopic imaging system of claim 3 wherein the first and second image
capturing components comprise first and second CMOS photo arrays, respectively.
- 30 5. The stereoscopic imaging system of claim 1 wherein the first and second lenses
comprise first and second objective lenses, respectively.
6. The stereoscopic imaging system of claim 3 wherein the display means comprises
35 first and second displays.

7. The stereoscopic imaging system of claim 3 further comprising a wireless communication circuit coupled to the processor that enables the processor to transmit and receive data by wireless communication.
- 5 8. The stereoscopic imaging system of claim 3 wherein the processor comprises a digital signal processor.
9. The stereoscopic imaging system of claim 3 further comprising flash memory coupled to the processor.
- 10 10. The stereoscopic imaging system of claim 3 further comprising random access memory coupled to the processor.
11. The stereoscopic imaging system of claim 3 further comprising an audio processor coupled to the processor.
- 15 12. The stereoscopic imaging system of claim 11 further comprising a first microphone and second microphone coupled to the audio processor.
- 20 13. The stereoscopic imaging system of claim 3 further comprising an analog output port connected to the processor.
14. The stereoscopic imaging system of claim 3 further comprising a digital input/output port connected to the processor.
- 25 15. The stereoscopic imaging system of claim 3 further comprising a remote system in communication with the processor.
16. The stereoscopic imaging system of claim 7 further comprising a remote system in communication with the processor.
- 30 17. The stereoscopic imaging system of claim 16 wherein the remote system comprises a processor node and at least one remote device wherein the processor node facilitates communication between the processor and the remote device.
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18. The stereoscopic imaging system of claim 17 wherein the processor node communicates with the processor via the wireless communication circuit.
19. The stereoscopic imaging system of claim 17 wherein the processor node communicates with the processor via wire hook-up.
20. The stereoscopic imaging system of claim 17 wherein the remote device is capable of communicating with the processor node through the Internet.
21. The stereoscopic imaging system of claim 17 wherein the remote device further comprises a display for displaying visual data in 3-D.
22. The stereoscopic imaging system of claim 17 wherein the remote device further comprises a display and a pair of stereoscopic eyewear that allows viewers to view images generated by the display in 3-D.
23. The stereoscopic imaging system of claim 17 wherein the remote device further comprises speakers.
24. A stereoscopic imaging system, comprising:
an adjustment assembly;
a first telescope chamber attached to the adjustment assembly;
a second telescope chamber attached to the adjustment assembly;
a first eyepiece for viewing images received by the first telescope chamber;
a second eyepiece for viewing images received by the second telescope chamber;
wherein the distance between the first and second telescope chambers can be varied by the adjustment assembly substantially independently of the distance between the first and second eyepieces.